



**Academic Year (2022-23)**  
**Year: T. Tech      Semester: V**  
**Program: B. Tech. (Minor in Web Application Development)**  
**Subject: Advanced Java Programming**  
**Date: 03/01/2023**

**Max. Marks: 75**  
**Time: 10:30 am to 1:30 pm**  
**Duration: 3 Hours**

**REGULAR EXAMINATION**

**Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover page of the Answer Book, which is provided for their use.**

- (1) This question paper contains 2 pages.
- (2) **All Questions are Compulsory.**
- (3) All questions carry equal marks.
- (4) **Answer to each new question is to be started on a fresh page.**
- (5) **Figures in the brackets on the right indicate full marks.**
- (6) **Assume suitable data wherever required, but justify it.**
- (7) **Draw the neat labelled diagrams, wherever necessary.**

Question No.		Max. Marks
Q1 (a)	Explain Exception Handling in Java? Explain different terms related to it. <b>OR</b> Explain method overriding with relevant examples.	[05] [05]
Q1 (b)	i. Explain features of struts 2 framework. ii. Write a program to use the concept of Dynamic Method Dispatching.	[05] [05]
Q2 (a)	i. Differentiate between AWT and swings. ii. Differentiate between servlet and JSP.	[05] [05]
Q2 (b)	Write and Explain major phases of JSP Life Cycle. <b>OR</b> Compare BLOB and CLOB.	[05] [05]
Q3 (a)	Explain recursion with relevant code snippets. <b>OR</b> Create an user defined Exception called as "MonthFormatException", which will be triggered when an invalid month number is entered by user.	[05] [05]
Q3 (b)	Draw and explain JDBC Architecture in detail. <b>OR</b>	[10]



Shri Vile Parle Kelavani Mandal's

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	Create one user defined package called as area, to find area of a Circle. Import this package in the Main class and find area of a Circle in main().	[10]
Q4 (a)	i. Write a program to demonstrate method overloading. ii. Discuss Garbage collection mechanism in java. <b>OR</b> i. List and Explain different components present in javax package. ii. Explain the concept of finalize() method in java with examples.	[04] [04]  [04] [04]
Q4 (b)	Explain different types of JDBC drivers. <b>OR</b> Explain Servlet lifecycle with suitable code snippets.	[07]  [07]
Q5 (a)	<b>Write short notes. (any two)</b> i. this keyword ii. final keyword iii. Interceptor	[05] [05] [05]
Q5 (b)	Differentiate between JSON and XML	[05]